

B. Sc. (Cardiovascular Technology) (CBCS – 2020 Course) SEM – IV : SUMMER – 2022
SUBJECT : ADVANCED ELECTROCARDIOGRAPHY (ECG) – I

Day : Thursday Time : —
Date : 21-07-2022 S..23357-2022 Max. Marks : 20

N. B. :

- 1) There are three sections as:
Section – A = Objective Type Questions - 20 Marks.
Section – B = Long Answer Questions - 20 Marks.
Section – C = Short Answer Questions - 20 Marks.
 - 2) Section A is given in **SEPARATE** sheet and has to be answered on same sheet. This sheet should be completed with the first 20 minutes of starting of the examination. This sheet with Section – A only will be collected by Supervisor.
 - 3) Section – B has four long questions and **ANY TWO** questions have to be answered.
 - 4) Section – C has six long questions and **ANY FOUR** questions have to be answered.
 - 5) You have to make \surd such kind of mark in the box of the appropriate answers.
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Seat No: _____ Total marks obtained: _____

Signature on Examiner: _____ Signature of Invigilator: _____

MCQs:

- Q. 1** Bundle of his bifurcate into:
- a) Right anterior fascicular branch
 - b) Left lateral fascicular branch
 - c) Right posterior fascicular branch
 - d) Left posterior fascicular branch

- Q. 2** Fascicular block also called as:
- a) Anterior descending block
 - b) Right bundle branch block
 - c) Bundle branch block
 - d) Hemiblock

- Q. 3** Normal QT interval is :
- a) 350-430 millisecond
 - b) 600-1200 milisecond
 - c) 350-430 seconds
 - d) 120-180 seconds

- Q. 4** Criteria for physiological Q waves are:
- a) It is observed in lead III and avf with verticle heart
 - b) They do not exceed 0.04 sec in duration
 - c) They do not exceed on fourth if R wave height
 - d) All of the above

P. T. O.

- Q. 5** Cardioversion can be done in:
- a) Cardiac arrest with heart rate more than 150 bits per minutes
 - b) Ventricular tachycardia
 - c) Atrial fibrillation
 - d) Ventricular fibrillation
- 1) a and c
 - 2) b, c and d
 - 3) b and d
 - 4) a, b and d

- Q. 6** Left posterior fascicular branch supply impulse to:
- a) Anterior portion of heart
 - b) Anterior and posterior part of heart
 - c) Left posterior and inferior part of heart
 - d) Left anterior and superior part of heart

- Q. 7** ECG of left anterior fascicular branch shows:
- a) Left axis deviation
 - b) Write axis deviation
 - c) Tall R wave in lead I and lead II, III
 - d) All of above

- Q. 8** Right bundle branch supply impulses to:
- a) Inferior part of LV
 - b) Posterior part of Lv
 - c) Left ventricle
 - d) Right ventricle

- Q. 9** Dilatation of right atrium on ECG called:
- a) P mitrale
 - b) P pulmonale
 - c) Notched and broad p wave
 - d) Atrial hypertrophy

- Q. 10** In left ventricular hypertrophy ECG shows:
- a) S wave in VI + R wave in V5-V6 > 28 mm
 - b) R wave in V5-V6 > S wave in VI > 35 mm
 - c) R wave in lead I > 10 mm
 - d) All of above

B. Sc. (Cardiovascular Technology) (CBCS – 2020 Course) SEM – IV : SUMMER – 2022
SUBJECT : ADVANCED ELECTROCARDIOGRAPHY (ECG) – I

Day : *Thursday* Time : *10:00 AM TO 12:00 P.M.*
Date : *21-07-2022 S-23357-2022* Max. Marks : 40

N. B. :

- 1) There are three sections as:
Section – A = Objective Type Questions - 20 Marks.
Section – B = Long Answer Questions - 20 Marks.
Section – C = Short Answer Questions - 20 Marks.
- 2) Section – B has four long questions and **ANY TWO** questions have to be answered.
- 3) Section – C has six long questions and **ANY FOUR** questions have to be answered.
- 4) Answers to both the sections should be written in **SAME** answer book.

SECTION – B

Long answer (Attempt **ANY TWO**) (20)

- Q. 1 Define conduction system in details. Draw labelled diagram.
- Q. 2 Write in details 'P' wave abnormality?
- Q. 3 Define left ventricular hypertrophy. Write ECG features?

SECTION – C

Short answer (Attempt **ANY FOUR**) (20)

- Q. 4 Discuss ECG of acute pulmonary embolism.
- Q. 5 Define left anterior fascicular block. Draw diagram. Write ECG changes.
- Q. 6 Write note a bundle branch block draw diagram of right bundle branch block.
- Q. 7 Discuss left atrial abnormality. Write ECG changes.
- Q. 8 Write in details 'Right atrial abnormality'.
- Q. 9 Define tall T wave. Write down its causes.

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